

# FOLIO

THE UNIVERSITY OF ALBERTA STAFF BULLETIN

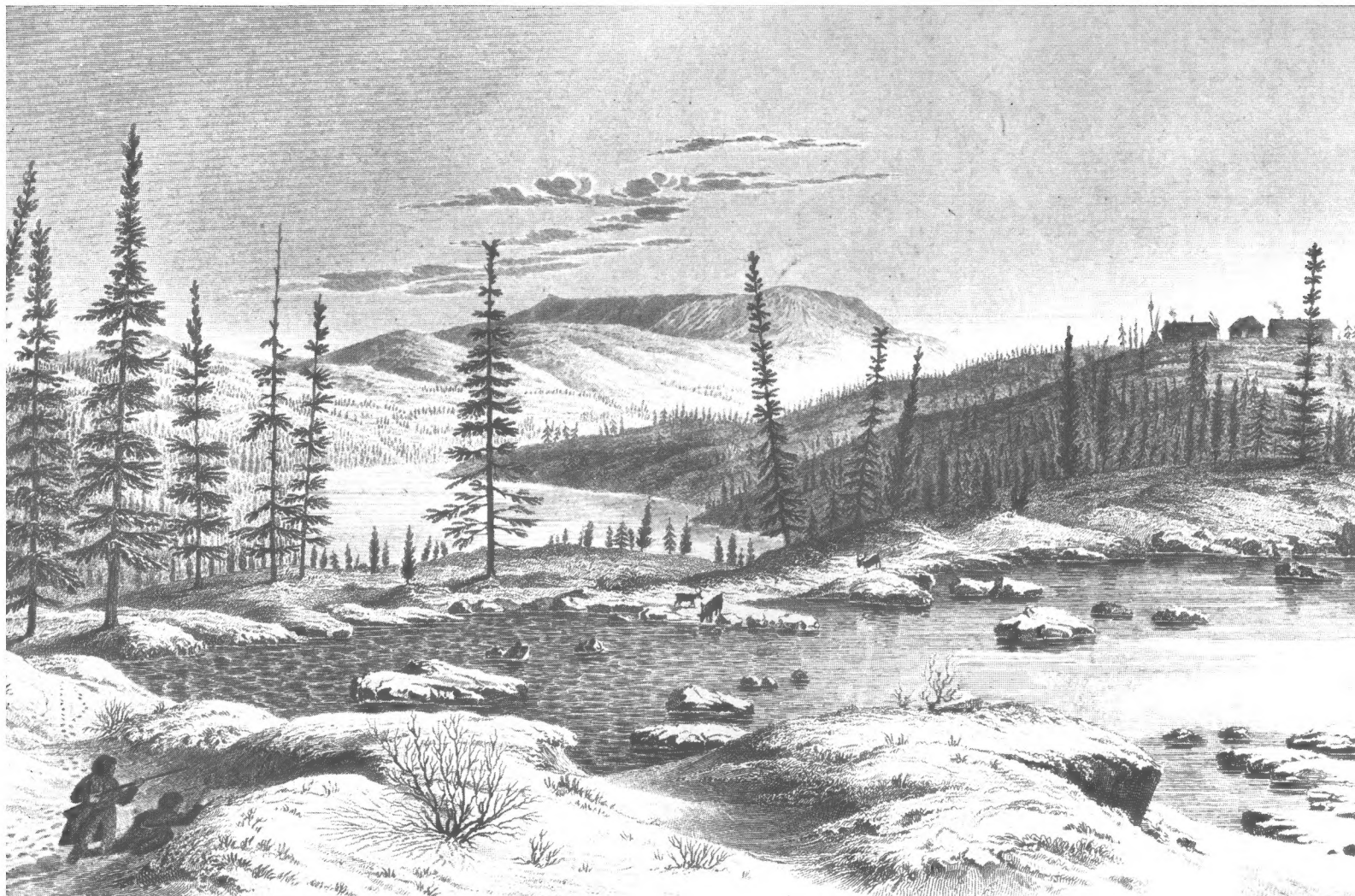
EDMONTON 7, ALBERTA

DECEMBER 17, 1970



*'Come' he calls to me—  
in cold curving stone*

VOLUME SEVEN, NUMBER TWENTY-SIX



*Lieutenant George Back's drawing entitled "Winter View of Fort Enterprise" shows snow melting in May, 1821. It is reprinted from an engraving included in Franklin's Journal.*

## Expedition to Fort Enterprise

The 1970 Fort Enterprise expedition, the first major archaeological endeavor of the Boreal Institute for Northern Studies, was completed following five weeks of field research in August. The party, consisting of T. C. LOSEY, graduate student in Anthropology and JENNY LOSEY, historian; MAURICE DOLL and CAROLYNN KOBELKA, also students in Anthropology; and D. J. PLUTH, Assistant Professor of Soil Science, left Edmonton July 26 and returned August 26, 1970.

The purpose of the research was to confirm the location on the Snare River of Fort Enterprise, the winter headquarters for Sir John Franklin's 1820-21 expedition, and to excavate the remains. Further knowledge was sought to augment the historic record compiled by Franklin and others following this first overland expedition.

The Fort Enterprise site is situated in the ecotone or transitional area between boreal forest and barren lands one hundred and forty miles north-northeast of Yellowknife, Northwest Territories. It is at the summit of a sandy alluvial terrace on the north bank of

Winter River below the upper set of rapids between Winter and Roundrock Lakes. The site is generally well-forested but barren lands are only a few hundred yards beyond the shelter of the valley. Flora and fauna are abundant, and specimens were sampled and observed. Analysis of faunal remains recovered from refuse areas will allow identification of the animal species used for subsistence. The final inventory of botanical specimens will be compared with Franklin's observations 150 years ago.

The most common trees are black spruce *Picea mariana*, white spruce *Picea glauca*, and dwarf birch *Betula sp.* The majority of these were determined to be less than 150 years old. This indicates that the original growth was probably removed for construction of the buildings. Fort Enterprise offers an otherwise unobtainable control on the age of pollen and soil samples taken from the original humus layer beneath the major structures. Accumulated sediment suitable for pollen analysis makes possible a comparison of past and present pollen spectra which should indicate changes in relative

abundance of pollinating species and other associated climatic changes.

A small weather station was set up at Fort Enterprise to record air and water temperatures, and relative humidity for comparison with the similar data which was rigorously recorded by Franklin's party.

A number of other sites were discovered in the area, some more recent and others established earlier than Fort Enterprise. These were aboriginal campsites and hunting stations. The location apparently was a favorite spot from which the barren ground caribou were hunted during their seasonal spring and fall migrations. The remains of this animal were abundant in many of the more recent camps and along the caribou trails which converge at a major crossing point on the Winter River one-half mile downstream from Fort Enterprise. In fact, herds of caribou passed through the expedition camp regularly beginning in late August. The observation of caribou movement attests to the thoughtful choice of the site for the Fort. The Franklin party was guided by a Dogrib Indian, Akaitcho, whose people



*Looking southwest from the site of the fort across the valley of the Winter River in August, 1970, the vista is little changed from that seen by Franklin's party. In the foreground are the clay banks from which materials for construction were taken by the explorers. The clay was used in roofing, walls, and the fireplace to fill in the chinks.*

frequently hunted in the area.

Construction methods and techniques in the three buildings which comprise Fort Enterprise were documented. The three buildings faced inward forming three sides of a quadrangle, just as was illustrated in a drawing by Lieutenant George Back of the Royal Navy in Franklin's JOURNAL. The site was not enclosed within a pallisade wall. The main building included a large hall, kitchen and officers' quarters, and the two lesser buildings consisted of storehouses and the voyageurs' quarters. The structure chosen for partial excavation was the main dwelling which was of particular interest as the residence of Franklin and two of the other officers, Richardson and Back. This building held the six starving survivors of the Franklin party following their return to Fort Enterprise in the fall of 1821. The twenty seven days of privation during which the men boiled "tripe de roche" *Gyrophora vellea*, and frozen caribou hides for nourishment, and tore up flooring for fuel were evidenced by some of the remains uncovered in the excavations. Artifacts recovered during (continued on page six)



*The kitchen midden, BELOW LEFT, where refuse was tossed, offered bones and particles of the party's food. In the bottom left corner the flooring is still in place. RIGHT, the jagged ends of flooring which was*

*ripped out for fuel, and the dark circle which was the hearth are shown. The rocks and clay which formed the fireplace lie about. Nails from the flooring were found in the firebed.*





# The University of

Biological Sciences Centre

<p><i>Sunday</i></p> <p>3</p>	<p><i>Monday</i></p> <p>4</p> <ul style="list-style-type: none"> <li>■ 8 a.m. Second term lectures begin in Dentistry, Dental Hygiene, and Medicine.</li> <li>■ Last day for receiving applications for admission to Medicine in the 1971-72 Session.</li> </ul>	<p><i>Tuesday</i></p> <p>5</p> <ul style="list-style-type: none"> <li>■ Meeting of the Campus Development Committee.</li> </ul>	<p><i>Wednesday</i></p> <ul style="list-style-type: none"> <li>■ 8 a.m. Second term lectures begin in faculties and schools January 4.</li> <li>■ Applications for admission from pre-professional students here should be submitted.</li> </ul>
<p><i>Sunday</i></p> <p>10</p>	<p><i>Monday</i></p> <p>11</p>	<p><i>Tuesday</i></p> <p>12</p> <ul style="list-style-type: none"> <li>■ Meeting of the Campus Development Committee.</li> </ul>	<p><i>Wednesday</i></p>
<p><i>Sunday</i></p> <p>17</p>	<p><i>Monday</i></p> <p>18</p>	<p><i>Tuesday</i></p> <p>19</p> <ul style="list-style-type: none"> <li>■ Meeting of the Campus Development Committee.</li> <li>■ Meeting of the Council on Student Affairs.</li> </ul>	<p><i>Wednesday</i></p> <ul style="list-style-type: none"> <li>■ Meeting of the Council on Student Affairs.</li> </ul>
<p><i>Sunday</i></p> <p>24</p>	<p><i>Monday</i></p> <p>25</p> <ul style="list-style-type: none"> <li>■ Meeting of General Faculties Council.</li> </ul>	<p><i>Tuesday</i></p> <p>26</p> <ul style="list-style-type: none"> <li>■ Meeting of the Campus Development Committee.</li> </ul>	<p><i>Wednesday</i></p>
<p><i>Sunday</i></p> <p>31</p>			

# January 1971

## Alberta Monthly Calendar

Friday

1

Saturday

2

■ New Year's Day. University offices closed.

6

Thursday

7

Friday

8

Saturday

9

Classes begin in all  
mentioned under  
on to Dentistry  
ants attending  
y this date.

■ Meeting of the Academic Development Committee.

■ Meeting of the Board of Governors.

13

Thursday

14

Friday

15

Saturday

16

■ Last day for registration and change of registration for students registering in second term courses.  
■ Meeting of the Academic Development Committee.  
■ Meeting of the University Planning Committee.

■ Last day for payment of second instalment of fees.  
■ Meeting of the Council on Graduate Studies.

20

Thursday

21

Friday

22

Saturday

23

council.

■ Meeting of the Academic Development Committee.

27

Thursday

28

Friday

29

Saturday

30

■ Meeting of the Academic Development Committee.  
■ Meeting of the University Planning Committee.

### December 1970

1 2 3 4 5  
6 7 8 9 10 11 12  
13 14 15 16 17 18 19  
20 21 22 23 24 25 26  
27 28 29 30 31

### February 1971

1 2 3 4 5 6  
7 8 9 10 11 12 13  
14 15 16 17 18 19 20  
21 22 23 24 25 26 27  
28

### March 1971

1 2 3 4 5 6  
7 8 9 10 11 12 13  
14 15 16 17 18 19 20  
21 22 23 24 25 26 27  
28 29 30 31

(continued from page three) the excavation included bone, metal scraps and snippings, a few nails, bone handles, glass beads, and sherds of crockery similar to the type used for inkwells of the period. Deficiencies in the artifact yield were due partly to material shortages which plagued the Franklin party, and partly to removal of artifacts prior to the 1970 expedition.

Detailed analysis of all materials obtained is now underway, and final reports will be made. Jenny Losey is completing an analysis of the historical perspective to the establishment of Fort Enterprise; Dr. Pluth, by analysis of soils and vegetation, is developing an environmental reconstruction of the original site. Maurice Doll is concerned with artifact identification and analysis, and Carolynn Kobelka with processing of the pollen. Timothy Losey, who directed the research, will complete the archaeological analysis and will synthesize all the findings.

The 1970 expedition was the first professional excavation of this area, although even its isolated location has not saved the fort from curio-hunters and visitors who have disturbed the remains. "As the population and development of the North continues, these sites are being pillaged, some beyond salvage. It is important that research is conducted while the remains are in condition to yield their secrets," Mr. Losey believes. Present indications are that the findings of the Fort Enterprise Expedition will add significantly to the growing knowledge concerning the history of Canada's Northwest Territories.

## AGENDA FOR GFC MEETING

A meeting of General Faculties Council will be held on Monday, December 21, 1970, in Room 200 (Council Chamber), University Hall at 2 p.m. The agenda follows.

1. Approval of the Agenda
2. Approval of Minutes
  - 2.1 Meeting of General Faculties Council of October 26, 1970. (Distributed November 11, 1970.)
  - 2.2 Special meeting of General Faculties Council of October 28, 1970. (Distributed November 18, 1970.)
3. Faculty of Graduate Studies:
  - 3.1 Recommendations to General Faculties Council concerning the DSc and DLitt degrees (reference Executive Minutes, November 23, 1970, Minute 234.1). (Distributed December 7, 1970.)
  - 3.2 Recommendation that the MHSA degree be offered by two routes (reference Executive Minutes, November 30, 1970, Minute 247.1). (To be distributed.)
  - 3.3 Recommendation that the thesis

requirement for the MBA be made optional (reference Executive Minutes, November 30, 1970, Minute 247.2). (To be distributed.) HENRY KREISEL.

4. Faculty of Science: Motion of the Faculty Council to abolish the combined degree program BSc/MD (reference Executive Minutes, November 30, 1970, Minute 242). (To be distributed.) HENRY KREISEL.
5. Report of the Nominating Committee. (To be distributed.) E. L. EMPEY.
6. GFC ad hoc Committee on Interdisciplinary Programs in Urban and Regional Studies: request for additions and replacements (reference Executive Minutes, November 16, 1970, Minute 221). (Distributed December 7, 1970.) HENRY KREISEL.
7. Ad hoc Committee on Consolidated Examinations: interim report (reference GFC Minutes, November 26, 1969, Minute 138; Executive Minutes, November 30, 1970, Minute 245—to be distributed). HENRY KREISEL.
8. Other business.

## CYCLOTRON TO BE BUILT

Three contracts have been placed for the TRIUMF cyclotron which is being built at the University of British Columbia. TRIUMF, a joint research facility of The University of Alberta, Simon Fraser University, the University of Victoria, and the University of British Columbia, is expected to be operating in 1973.

The largest contract was to Commonwealth Construction Company for \$845,507 for the superstructure of the accelerator building. It was awarded by UBC's Board of Governors and is subject to a completion date of June 16, 1971. Commonwealth was previously awarded \$2,171,881 for the substructure, the foundation on which the building will be erected.

The two other contracts were to Canron Limited to supply and fabricate the support structure for the cyclotron itself for \$629,099, and to National Electric Coil Company of Columbus, Ohio, to supply the two main coils of the cyclotron's electromagnet for \$602,440.

The two aluminum water-cooled coils will energize the huge TRIUMF magnet using 2.5 megawatts of direct current power. Negative hydrogen ions will spin out from the centre of the 4,200-ton magnet between the magnet's upper and lower poles. Between the poles of the magnet will be a stainless steel vacuum tank, kept from collapsing inwards by the support structure.

TRIUMF will be used for research in nuclear and particle physics, solid-state physics, radiation chemistry, isotope

production, activation analysis, organic crystal structure, radiobiology, and radiotherapy. The University of Alberta is contributing \$250,000 to TRIUMF for the next five years. The three British Columbia universities will provide \$4.4 million, and the federal government will provide the \$23.3 million for the cyclotron, ancillary equipment, and experimental facilities, and also the \$4 million annual operating cost.

## PEOPLE

R. T. COUTTS, Professor of Pharmacy and Pharmaceutical Sciences, lectured recently to the Evening Institute program of the Extension Division of the University of Manitoba. While in Winnipeg, Dr. Coutts also delivered a seminar on mass spectrometry.

J. P. DAS, Associate Professor of Educational Psychology, and of the Centre for the Study of Mental Retardation, is in India supervising cross-cultural research on culturally deprived children. Dr. Das, who is supported by the Canada Council, is examining the cognitive competence and personality characteristics of Caucasian, Canadian Indian, and Negro children, and high and low caste children in India.

D. G. FISHER, Professor, and D. E. SEBORG, Associate Professor, both of the Department of Chemical and Petroleum Engineering, presented papers at the sixty-third annual meeting of the American Institute of Chemical Engineers in Chicago.

## VISITORS

G. M. WILSON, Director of Research for P-V-T Inc., presented a seminar to the Department of Chemical and Petroleum Engineering.

KAI NIELSEN, Visiting Professor at the University of Calgary, spoke to the Philosophy Club.

## NOTICES

### MAIL FOR COLLÈGE ST. JEAN

Now that Collège St. Jean has become an integral part of the University, delivery and collection of mail between the two campuses will be made daily by University personnel. Therefore, when sending mail to the Collège there is no need to show the street address or to use stamps.

### STUDY TOUR IN ART APPRECIATION

This summer the Department of Extension is again offering the opportunity to combine a study tour of Europe's major art galleries with a sightseeing holiday. HARRY WOHLFARTH, Associate Professor of Extension, will conduct the tour which leaves Edmonton on

June 24 and returns on July 18.

Art galleries, significant buildings and monuments, bohemian districts, markets, universities, and cathedrals will be visited in London, Amsterdam, Essen, Munich, Florence, Rome, Milan, Lausanne, and Paris. The party will take a trip through the canals of Amsterdam, view a light and sound recreation of the history of Rome in the Forum Romanum, and ascend the Eiffel Tower, among other activities.

The estimated cost of the tour is \$750, which includes the \$50 registration fee. The registration deadline is January 1, 1971. For further information call the Department of Extension at 439-2021.

#### CITADEL CHRISTMAS PERFORMANCE

The Citadel Theatre will present a special Christmas Eve performance of *The Secretary Bird* by WILLIAM DOUGLAS-HOME for students who will be in town over the holiday period. Upon presentation of a valid ID card, the admission price will be \$1.50, and wives of students will also be admitted at the reduced rate.

Reservations may be made in advance by calling the Citadel box office at 424-2828.

#### THEATRE FOR YOUNG AUDIENCES

Theatre Edmonton for Young Audiences will be presenting MAETERLINCK'S *The Bluebird* at the Victoria Composite High School on Friday, December 18 at 7:30 p.m., and on Saturday and Sunday, December 19 and 20 at 2 p.m. Tickets are available at the Bay symphony box office, at all Woodward's stores, and at the Bonnie Doon shopping mall.

#### COVER PHOTOS

The two Eskimo drummer-dancers are part of the collection which is on display in the Library of the Boreal Institute. The collection has been loaned to the Institute by MRS. H. M. MUNAWYCH, who has taught crafts in Edmonton and in Frobisher Bay. She obtained the carvings at Frobisher Bay in the spring of 1970. "Little Drummer Boy," shown on the front page, is Centennial Carving No. 11560-1 by ENOOGO of Arctic Bay. The bearded figure has long hair and is open-mouthed, as if he is singing. "Drummer Man," on the back page, carved by KADLOO at Pond Inlet, is a larger figure with a smaller drum. Both are of dark green serpentine with white skin drums and beaters, and are unusually expressive in their attitudes of movement. The Eskimo drummer-dancers sing the chants of their people, like this one, quoted in *Eskimo Sculpture*, by G. SWINTON; "What is, is. Whatever is, is different. We are what we are. It can't be helped. It is good to be."

## POSITIONS VACANT

### NON-ACADEMIC STAFF

Applicants are sought for the following positions. The Personnel Office (Room 121, Administration Building) will provide further details to interested persons, who are asked not to approach the departments directly.

Clerk Typist II (\$302-\$368) Surgery; Faculty of Science  
Library Clerk II (\$302-\$368) Extension Library  
Clerk Steno II (\$317-\$386) Psychology; Business Administration and Commerce; Extension; Pathology  
Clerk Steno III (\$368-\$447) Chemical and Petroleum Engineering  
Senior Clerk (\$350-\$425) Personnel  
Bookkeeper II (\$368-\$447) Student Health Services  
Accounts Clerk III (\$543-\$660) Office of the Comptroller  
Laboratory Assistant I (\$288-\$350) Pharmacology  
Chemical Technician (\$470-\$571) Animal Science  
Bacteriology Technologist I (\$470-\$571) Provincial Laboratory  
Laboratory Assistant I (P/T) Cancer Research Unit  
Research Technician (\$470-\$571) Centre for Study Mental Retardation  
Technical Assistant (\$405-\$492) Pharmacology  
Programmer I (\$492-\$599) Community Medicine  
Analyst (\$803-\$976) Administrative Data Processing  
Analyst (\$693-\$976) Computing Center  
Programmer III (\$693-\$843) Administrative Data Processing  
Graphic Assistant (Open) Technical Services

## PERSONAL NOTICES

Notices must reach the Editor by 9 a.m. the Friday prior to publication. They must be typed, and not exceed 35 words including heading.

### ACCOMMODATION AVAILABLE

FOR RENT—Modern four-bedroom house with stove, fridge, drapes, near the University, from July 1971 to September 1972, at \$275 per month. 434-3046, evenings.  
FOR SUB-LEASE—Batchelor apartment, one block from University. \$105 per month. Parking available (additional). 433-2167 evenings.  
FOR RENT—Unfurnished one-bedroom apartment, sunny, new house, situated on 10742-81 Avenue. Free parking. Available December 15, \$135 per month.  
FOR RENT—Four-bedroom split-level home with fireplace, crescent location—one block from Meadowlark School. January 1 to August 30. Rent from \$200 to \$250 per month depending on its being furnished or unfurnished. Couples acceptable. 484-4059.  
FOR RENT—Three-bedroom duplex, furnished, \$160 per month, plus utilities. Northeast Edmonton. Available February 1 to August 1, 1971. 432-4524 days, or 475-1190 evenings.  
ROOM AND BOARD—Available for females only. Full-time cook. Available December. \$90 per month. 8321-112 Street. 439-0855.  
ROOM FOR RENT—Main floor, very close to campus, full board available. Would prefer staff or graduate student. 433-0639 after 5 p.m.

### ACCOMMODATION WANTED

WANTED—Two or three girls who are interested in apartment hunting, after Christmas. The freedom to pick and choose is your prerogative. Are you interested? If so, call Lorie 469-1652 after 5:30 p.m.  
WANTED—Two- or three-bedroom house or three-bedroom apartment, southside, beginning January 1, 1971, or a few days earlier. Rent negotiable. 435-4174 home, 432-5859 office.

WANTED—Female to share apartment with two others on 100 Avenue and 115 Street starting February 1. Phone Joan at 432-5281 days, 488-9398 evenings.

### AUTOMOBILES AND ACCESSORIES

FOR SALE—1963 VW1500 notchback; new tires, in good shape. \$450. Evenings 434-3046.  
FOR RENT—1960 Rambler for driving to campus. \$25 per month. 439-3861.  
FOR SALE—1966 Falcon Futura, six cylinder, automatic transmission, excellent condition. 434-6958 after 6 p.m.  
FOR SALE—1969 Renault 16 De Luxe, radio, head-rest, radials. 12,000 miles. \$2,200 or nearest offer. 433-9125.  
FOR SALE—Roof rack, ideal for VW or Volvo station wagon (\$15); rear seat (folding type) for VW bus (\$10); gas heater for VW bus, 12 volt, cost \$170 new (\$100). 435-1962.  
FOR SALE—1968 Dodge Dart GTS. 423-1429.  
WANTED—Studebaker Lark, motor and body condition unimportant, but must have standard (V8) transmission. 423-1429.

### GOODS AND SERVICES

FOR SALE—Dishwasher, one-year old Zenith, portable, excellent condition. Hoover washer/spin dryer, two years old. Also gas stove and electric refrigerator. 453-1394 after 6 p.m.  
FOR SALE—One pair alpine davos wood skis (size 190) with step-in bindings. Reasonable price. 439-6509 after 4:30 p.m.  
FREE—Playful kittens which will be old enough for Christmas stockings. To reserve one, call 433-0593.  
WANTED—Ski boots, men's 10½ wide, lace or buckles. 432-5835 days.  
FOR SALE—Women's outdoor shoe roller skates. Size 8. Rarely used. 433-7261, 5-9 p.m.  
DRESSMAKING AND ALTERATIONS—experienced seamstress. Phone 433-2351 between 4:30 and 9 p.m. Monday to Friday, or at any time on weekends.  
RIDE WANTED—For staff member to and from University, from vicinity of 120 Avenue and 90 Street. Call Doris, 3206 or 3643.  
FOR SALE—Steinway piano, model B, 6 ft. 10 ins. New condition. Used only 2 years in private home. 484-4322.  
FOR SALE—Rug, black and white goatskin, with Greek key pattern, made in Greece, 56 x 46 ins. Absolutely new. \$30. 432-3887 (Miss Scott) weekdays, or 433-4786 between 6 and 9 p.m.

# FOLIO

THE UNIVERSITY OF ALBERTA, EDMONTON 7, ALBERTA

Published for the staff and other interested persons by the University Publications Office. Copyright 1970.

William Samis, Editor

Advisory Committee: E. D. Hodgson (Acting Associate Dean of Graduate Studies), J. W. Carmichael (Professor of Bacteriology), and Aylmer A. Ryan (Provost and Executive Assistant to the President)

Staff: Katherine Govier (Assistant Editor), Jeanette Rothrock (Senior Writer), Forrest Bard (Photographer), Frank Hale (Illustrator), and Norma Gutteridge (Copy Editor)

EDITORIAL OFFICE: University Publications Office, 381 Central Academic Building, telephone 432-4991

DISTRIBUTION and mailing list enquiries: Public Relations Office (Attention: Mrs. B. J. Lacroix), telephone 432-4201

Printed by the Printing Department  
Photographic lab work by Technical Services



*In whatever myth  
the little drummer boy  
summons all spirits  
to a common faith*

*(Story on page seven)*

